

## CLAIMS

1. Corrugated product (10), comprising at least one first plane sheet (11)  
5 and at least one second sheet (12) arranged in wave shape, wherein the first sheet is joined with the second sheet in joining areas (15), forming a frame-work shape having the joining areas arranged at tops (14) of the second sheet, *characterized* in  
that at least the second sheet (12) is arranged with a thinner portion (18) in  
10 connection with the joining areas (15), and  
that the joining areas between the first sheet and the second sheet substantially include the entire thinner portion (18) of the second sheet (12).
- 15 2. Corrugated product according to claim 1, wherein the joining areas between the first sheet and the second sheet include the entire thinner portion (18) of the second sheet.
- 20 3. Corrugated product according to claim 2, wherein the joining areas between the first sheet and the second sheet include the entire thinner portion (18) and a thicker portion of the second sheet (12) adjacent the thinner portion.
- 25 4. Corrugated product according to claim 3, wherein the thinner portion (18) is arranged with a length and thickness that in combination with the length, thickness and shape of remaining portions of the second sheet results in a substantially similar consumption of material and/or cross section area of the second sheet as of a corresponding plane sheet without thinner portions of the same width.
- 30 5. Corrugated product according to claim 1, wherein at least the second sheet is formed in a thermoplastic material.

6. Corrugated product according to claim 5, wherein the second sheet is formed in a material comprising a polyolefine or a compound thereof.
7. Corrugated product according to claim 6, wherein the material comprises a filler of chalk.
8. Corrugated product according to claim 6, wherein at least the first sheet and the second sheet are joined by welding.
9. Corrugated product according to claim 1, wherein the second sheet arranged in wave shape comprises straight portions extending between the tops.
10. Corrugated product according to claim 1, wherein a third plane sheet is connected to the wave shaped second sheet in joining areas, so that the wave shaped second sheet is arranged between both of the substantially plane sheets.
11. Corrugated product according to claim 1, wherein a plane third sheet is arranged opposite the first plane sheet with an intermediate and wave shaped fourth sheet arranged with tops joined with tops of the second wave shaped sheet.
12. Corrugated product according to claim 1, wherein at least the first plane sheet (11) is arranged with a regular elevation (16) between adjacent joining areas (15).